

=====

Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=6; day=11; hr=16; min=52; sec=41; ms=214;]

=====

Reviewer Comments:

<210> 7

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(methyl)

<400> 7

Pro His Ser Xaa

1

The above <221> AMIDATION indicates location 5--there are only 4 amino acids in this sequence. Same type of error in Sequences 13-14, 32, 47-49.

<210> 42

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 8
<223> Xaa = Lys(biotin)

<400> 42
Pro Phe Ser Cys Asn Gly Gly Lys
1 5

The above <220>-<223> section describing Xaa is incorrect: "Lys," not Xaa, is at location 8. Also, "<221> "AMIDATION" indicates location 5 instead of 8.

Application No: 10723144

Version No: 1.0

Input Set:

Output Set:

Started: 2008-06-11 16:14:15.121

Finished: 2008-06-11 16:14:17.007

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 886 ms

Total Warnings: 50

Total Errors: 0

No. of SeqIDs Defined: 50

Actual SeqID Count: 50

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-06-11 16:14:15.121
Finished: 2008-06-11 16:14:17.007
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 886 ms
Total Warnings: 50
Total Errors: 0
No. of SeqIDs Defined: 50
Actual SeqID Count: 50

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Ternansky, Robert J.
 Allan, Amy L.
 Donate, Fernando
 Hopkins, Stephanie A.
 Gladstone, Patricia L.
 Mazar, Andrew
 O'Hare, Sean M.
 Parry, Graham
 Plunkett, Marian
 Yoon, Won Hyung

<120> PEPTIDES WHICH INHIBIT ANGIOGENESIS, CELL MIGRATION,
 CELL INVASION AND CELL PROLIFERATION, COMPOSITIONS
 AND USES THEREOF

<130> 9715-023-999

<140> 10723144
 <141> 2008-06-11

<150> 60/429,174
 <151> 2002-11-25

<150> 60/475,539
 <151> 2003-06-02

<160> 50

<170> FastSEQ for Windows Version 4.0

<210> 1
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthesized peptide

<220>
 <221> ACETYLATION
 <222> 1

<220>
 <221> AMIDATION
 <222> 5

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Cys(beta,beta-dimethyl)

<400> 1
 Pro His Ser Xaa Asn

1 5

<210> 2
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<400> 2
Pro His Ser Cys Asn
1 5

<210> 3
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys(benzyl)

<400> 3
Pro His Ser Xaa Asn
1 5

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys(4-methyl-benzyl)

<400> 4
Pro His Ser Xaa Asn
1 5

<210> 5
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Met (O)

<400> 5
Pro His Ser Xaa Asn
1 5

<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Met (O2)

<400> 6

Pro His Ser Xaa Asn

1 5

<210> 7

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(methyl)

<400> 7

Pro His Ser Xaa

1

<210> 8

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(4-MeO-Phenyl)

<400> 8

Pro His Ser Xaa Asn

1 5

<210> 9
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys (parra-MeOBzl)

<400> 9
Pro His Ser Xaa Asn
1 5

<210> 10
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys (Ph)

<400> 10
Pro His Ser Xaa Asn
1 5

<210> 11
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys(S-tBu)

<400> 11
Pro His Ser Xaa Asn
1 5

<210> 12
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys(tBu)

<400> 12
Pro His Ser Xaa Asn
1 5

<210> 13
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 3

<223> Xaa = Cys(SMe)

<400> 13

His His Xaa Asn

1

<210> 14

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 3

<223> Xaa = Cys(SMe)

<400> 14

His Ser Xaa Asn

1

<210> 15

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(SO₂Bn)

<400> 15

Pro His Ser Xaa Asn

1 5

<210> 16

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLTATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(SO₂Ph)

<400> 16

Pro His Ser Xaa Asn

1 5

<210> 17

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLTATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(SOBn)

<400> 17

Pro His Ser Xaa Asn

1 5

<210> 18

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(Bz)

<400> 18

Pro His Ser Xaa Asn

1 5

<210> 19

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<400> 19

Pro His Ser Cys Asn

1 5

<210> 20

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys((phenylthio)acetyl)

<400> 20

Pro His Ser Xaa Asn

1 5

<210> 21

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(Alloc)

<400> 21

Pro His Ser Xaa Asn

1 5

<210> 22

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(Piv)

<400> 22

Pro His Ser Xaa Asn

1 5

<210> 23

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(cyclohexanoyl)

<400> 23

Pro His Ser Xaa Asn

1 5

<210> 24

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(nicotinoyl)

<400> 24

Pro His Ser Xaa Asn

1 5

<210> 25

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(thiophene-2-carbonyl)

<400> 25

Pro His Ser Xaa Asn

1 5

<210> 26

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(allyl)

<400> 26

Pro His Ser Xaa Asn

1 5

<210> 27

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(methoxyethane)

<400> 27

Pro His Ser Xaa Asn

1 5

<210> 28

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(SMe)

<400> 28

Pro His Ser Xaa Asn

1 5

<210> 29
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys (SPh)

<400> 29
Pro His Ser Xaa Asn
1 5

<210> 30
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = Cys (SCH₂- (R) -CH (NH₂) CO₂H)

<400> 30
Pro His Ser Xaa Asn
1 5

<210> 31
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = HoCys(Bz)

<400> 31
Pro His Ser Xaa Asn
1 5

<210> 32
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 8
<223> Xaa = Lys(biotin)

<400> 32
Pro Phe Ser Cys Asn Gly Gly Lys
1 5

<210> 33
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(Piv)

<400> 33

Pro His Ser Xaa Asn

1 5

<210> 34

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(thiophene-2-carbonyl)

<400> 34

Pro His Ser Xaa Asn

1 5

<210> 35

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(methoxyethane)

<400> 35

Pro His Ser Xaa Asn

1 5

<210> 36

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(Bn)

<400> 36

Pro His Ser Xaa Asn

1 5

<210> 37

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(SMe)

<400> 37

Pro His Ser Xaa Asn

1 5

<210> 38

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = HoCys(SPh)

<400> 38

Pro His Ser Xaa Asn

1 5

<210> 39

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Ala(beta-SO₂Bn)

<400> 39

Pro His Ser Xaa Asn

1 5

<210> 40
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 4
<223> Xaa = HoCys(Ph)

<400> 40
Pro His Ser Xaa Asn
1 5

<210> 41
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<400> 41
Pro His Ser Ser Asn
1 5

<210> 42
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>

<221> VARIANT

<222> 8

<223> Xaa = Lys(biotin)

<400> 42

Pro Phe Ser Cys Asn Gly Gly Lys

1 5

<210> 43

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<400> 43

Pro Phe Ser Cys Asn

1 5

<210> 44

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(Me)

<400> 44

Pro His Ser Xaa Asn

1 5

<210> 45

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(acetyl)

<400> 45

Pro His Ser Xaa Asn

1 5

<210> 46

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>

<221> VARIANT

<222> 4

<223> Xaa = Cys(acetamidomethyl)

<400> 46

Pro His Ser Xaa Asn

1 5

<210> 47

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> synthesized peptide

<220>

<221> ACETYLATION

<222> 1

<220>

<221> AMIDATION

<222> 5

<220>
<221> VARIANT
<222> 3
<223> Xaa = Cys(Me)

<400> 47
Pro Ser Xaa Asn
1

<210> 48
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<220>
<221> VARIANT
<222> 3
<223> X = Cys(ethyl)

<400> 48
Pro Ser Xaa Asn
1

<210> 49
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<400> 49
Pro His Ser Ala
1

<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthesized peptide

<220>
<221> ACETYLATION
<222> 1

<220>
<221> AMIDATION
<222> 5

<400> 50
Pro His Ser Met Asn
1 5